

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: March 30, 2003, 00:35:07 ; Search time 235.597 Seconds
(without alignments)
12904.233 Million cell updates/sec

Title: US-09-768-781-1

Perfect score: 1350

Sequence: 1 atggacagagattatgaat.....caaggcaagtggtgtctga 1350

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq 101002.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	525.2	38.9	532	ABL89709	Human polynucleoti
2	513.8	38.1	531	ABK41708	cDNA encoding nove
3	289.6	21.5	5096	ABL64686	Stomach cancer rel
4	282.8	20.9	5215	ABN59695	Novel human coding
5	270.6	20.0	668	ABA46582	Human breast cell
6	270.6	20.0	668	ABA64445	Human foetal liver
7	270.6	20.0	668	ABR31582	Probe #10048 for g
8	270.6	20.0	668	AAK12903	Human brain expres
9	270.6	20.0	668	AAK38630	Human bone marrow

10	270.6	20.0	668	22	AAI19430	Probe #9363 for ge
11	270.6	20.0	668	22	AAI44621	Probe #13307 used
12	270.6	20.0	668	22	AAI05155	Probe #5146 used t
13	270.6	20.0	668	24	ABSI2699	Human genome-deriv
14	176.8	13.1	471	22	ABAS1767	Human foetal liver
15	176.8	13.1	471	22	ABA21596	Probe #82 for gene
16	176.8	13.1	471	22	AAK00075	Human brain expres
17	176.8	13.1	471	22	AAK25512	Human bone marrow
18	176.8	13.1	471	22	AAI10135	Probe #68 for gene
19	176.8	13.1	471	22	AAI13184	Probe #70 used to
20	176.8	13.1	471	22	AAI00076	Probe #87 used to
21	176.8	13.1	471	22	ABS000080	Human genome-deriv
22	171.4	12.7	1588	19	AAV69647	XX related Y (XKRY
c 23	160.4	11.9	384	22	ABA36103	Probe #14569 for g
c 24	160.4	11.9	384	22	AAK17479	Human brain expres
c 25	160.2	11.9	626	22	AAFS3700	cDNA encoding SRT
c 26	140.4	10.4	498	22	ABA26217	Probe #4683 for ge
c 27	140.4	10.4	498	22	AAK04747	Human brain expres
28	73.2	5.4	294	22	ABA48894	Human breast cell
29	73.2	5.4	294	22	ABA66814	Human foetal liver
30	73.2	5.4	294	22	ABA33877	Probe #12343 for g
31	73.2	5.4	294	22	AAK15243	Human brain expres
32	73.2	5.4	294	22	AAK40967	Human bone marrow
33	73.2	5.4	294	22	AAI21737	Probe #11670 for g
34	73.2	5.4	294	22	AAI47022	Probe #15708 used
35	73.2	5.4	294	22	AAI07422	Probe #7413 used t
36	73.2	5.4	294	24	ABSI4934	Human genome-deriv
37	65	4.8	477	22	ABA43790	Human breast cell
38	65	4.8	477	22	ABA54250	Human foetal liver
39	65	4.8	477	22	ABA24001	Probe #2467 for ge
40	65	4.8	477	22	AAK02527	Human brain expres
41	65	4.8	477	22	AAK27964	Human bone marrow
42	65	4.8	477	22	AAI12547	Probe #2480 for ge
43	65	4.8	477	22	AAI33897	Probe #2583 used t
44	65	4.8	477	22	AAI02452	Probe #2443 used t
45	65	4.8	477	24	ABS02431	Human genome-deriv

ALIGNMENTS

RESULT 1

ABL89709
ID ABL89709 standard; cDNA; 532 BP.

AC ABL89709;

XX 24-MAY-2002 (first entry)

DT Human polynucleotide SEQ ID NO 271.

XX Cytostatic; immunosuppressive; neurotropic; neuroprotective; antiviral;
XX antiallergic; hepatotropic; antidiabetic; antinflammatory; antiulcer;
XX vulnery; anticonvulsant; antibacterial; antifungal; antiparasitic;
XX cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
XX neurological disease; infection; human; secreted protein; gene; ss.

OS Homo sapiens.

XX WO200190304-A2.

PD 29-NOV-2001.

PP 18-MAY-2001; 2001WO-US16450.

PR 19-MAY-2000; 2000US-205515P.

PA (HUMA-) HUMAN GENOME SCI INC.

PI Birse CE, Rosen CA;

XX WPI; 2002-122018/16.

DR P-PSDB; ABB89300.

XX Novel 1405 isolated polypeptides, useful for diagnosis, treatment and
PT prevention of neural, immune system, muscular, reproductive,
PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative
PT disorders -
XX
PS Claim 4; SEQ ID NO 271; 2081pp + Sequence Listing; English.
XX
CC The invention relates to novel genes (ABL89449-ABL90853) and proteins
CC (ABB89040-ABB90444) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful
CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
CC and ovarian cancer and other cancers of the adrenal gland, bone, bone
CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative
CC colitis; (c) cardiovascular disorders such as myocardial ischaemias;
CC (d) wound-healing; (e) neurological diseases e.g. cerebral anoxia and
CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
CC and parasitic infections.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 532 BP; 109 A; 129 C; 121 G; 168 T; 5 other;

Query Match 38.9%; Score 525.2; DB 24; Length 532;
Best Local Similarity 98.7%; Pred. No. 5.5e-151;
Matches 524; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
QY 747 GGAGATCACTCCCGCTCTGATCTGGTCTCTCTGAGCCACTTTGAATTTGAAGC 806
DB 2 GGAGATCACTTCGGCTCTGATCTGGTCTCTCTGAGCCACTTTGAATTTGAAGC 61
QY 807 TGTGCCCTTCTAGTGTCTCAATCTCTGATCATCTCTTTGAGCCCTGGATTAAGTTCTG 866
DB 62 TGTGCCCTTCTAGTGTCTCAATCTCTGATCATCTCTTTGAGCCCTGGATTAAGTTCTG 121
QY 867 GAGAGTGTGGCCAGATGCCCAATTAACATTTAGAAAACCTTCAGCCGGTGGCACTCT 926
DB 122 GAGAGTGTGGCCAGATGCCCAATTAACATTTAGAAAACCTTCAGCCGGTGGCACTCT 181
QY 927 GGTGTCTCTGATTTAGTCACTACCATCTCTATGCTGGCATCACTCTCTGCTGTGCTCAGC 986
DB 182 GGTGTCTCTGATTTAGTCACTACCATCTCTATGCTGGCATCACTCTCTGCTGTGCTCAGC 241
QY 987 TTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTGGGGACATAT 1046
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QY 1047 GGCCCTGCACTATAGTGTGAGGTTGGTAGAAGTATCATGGTCTTGGTTTTAAGTT 1106
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QY 1107 CTTTGGAGTCAAACTGTACTGATTAATCTGATCTCTGATTTGCTTGCAGCTCATAT 1166
DB 362 CTTTGGAGTCAAACTGTACTGATTAATCTGATCTCTGATTTGCTTGCAGCTCATAT 421
QY 1167 TGCTTATCTGATTTCCATTTGACATTTGATCTCTCTTTCTTCCAGTACTTGCATCATTTGCG 1226
DB 422 TGCTTATCTGATTTCCATTTGACATTTGATCTCTCTTTCTTCCAGTACTTGCATCATTTGCG 481
QY 1227 CTCACCTTCCACCATTAATGTAGTACACTACCTCCCATTTGTTGCTGTGCTCA 1277
DB 482 CTCACCTTCCACCATTAATGTAGTACACTACCTCCCATTTGTTGCTGTGCTGTCA 532

RESULT 2
ABK41708
ID ABK41708 standard; cDNA; 531 BP.

XX AC ABK41708;
XX DT 21-MAY-2002 (first entry)
XX DE cDNA encoding novel human connective tissue related polypeptide #96.
XX KW Human; connective tissue related disorder; cancer; gene therapy;
XX OS cytotstatic; gene; ss.
XX OS Homo sapiens.
XX PN WO200155343-A1.
XX PD 02-AUG-2001.
XX PF 17-JAN-2001; 2001WO-US01322.
XX PP 31-JAN-2000; 2000US-0179065.
XX PR 04-FEB-2000; 2000US-0180628.
XX PR 24-FEB-2000; 2000US-0184664.
XX PR 02-MAR-2000; 2000US-0186350.
XX PR 16-MAR-2000; 2000US-0189874.
XX PR 17-MAR-2000; 2000US-0190076.
XX PR 18-APR-2000; 2000US-0198123.
XX PR 19-MAY-2000; 2000US-0205515.
XX PR 07-JUN-2000; 2000US-0209467.
XX PR 28-JUN-2000; 2000US-0214886.
XX PR 30-JUN-2000; 2000US-0215135.
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XX PR 30-AUG-2000; 2000US-0228924.
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XX PR 06-SEP-2000; 2000US-0230438.
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XX PR 08-SEP-2000; 2000US-0231414.
XX PR 08-SEP-2000; 2000US-0232080.
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XX PR 12-SEP-2000; 2000US-0231968.
XX PR 14-SEP-2000; 2000US-0232397.
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PR 14-SEP-2000; 2000US-0232400.
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PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.

PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
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PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251889.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-565190/63.
DR P-PSDB; AAU86530.
XX
PT Nucleic acid encoding novel connective tissue associated polypeptides,
PT used in diagnosing, preventing, treating or ameliorating a disorder
PT such as cancer or rheumatoid arthritis -
XX
PS Claim 4; SEQ ID No 106; 673pp; English.
XX
CC The present invention relates to the isolation of novel human connective
CC tissue related polypeptides (AAU86435-AAU86923) and the polynucleotide
CC (cDNA and genomic) sequences encoding them. The sequences of the
CC invention are useful in the diagnosis, treatment, prevention and/or
CC prognosis of diseases associated with connective tissue(s), including
CC cancer. The polynucleotide sequences of the invention are also useful
CC in gene therapy. ABR41613-ABK42101 represent cDNA sequences encoding
CC the novel human connective tissue related polypeptides.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 531 BP; 109 A; 128 C; 121 G; 168 T; 5 other;
Query Match 38.1%; Score 513.8; DB 23; Length 531;
Best Local Similarity 98.5%; Pred. No. 1.8e-147;
Matches 523; Conservative 5; Mismatches 2; Indels 1; Gaps 1;
QY 747 GGAGATCACTTCCCGCTCTGATTCCTGCTGCTCTTCTGAGCACTTTGAAATGAAGGC 806
DB 2 GGAGATCACTTCCCGCTCTGATTCCTGCTGCTCTTCTGAGCACTTTGAAATGAAGGC 61
QY 807 TGTGCCCTTCTAGTGTCAACTTCTGATCATCTCTTTGAGCCCTGATTAAGTTCTG 866
DB 62 TGTGCCCTTCTAGTGTCAACTTCTGATCATCTCTTTGAGCCCTGATTAAGTTCTG 121
QY 867 GAGAAAGTGTGCCAGATGCCCAATAACAATTGAGAAAACTTTCAGCCGGTTCGCACTCT 926
DB 122 GAGAAAGTGTGCCAGATGCCCAATAACAATTGAGAAAACTTTCAGCCGGTTCGCACTCT 181
QY 927 GGTGCTCTGATTTGAGTCACTTCTCTATGCTGGCATCAACTTCTTGTGCTGCTGAGC 986
DB 182 GGTGG-CTGTGATTTGAGTCACTTCTCTATGCTGGCATCAACTTCTTGTGCTGCTGAGC 240
QY 987 TTTGCAAGTTGAGGTTGGCAGACAGAGATCTCTGAGCAAGGGGCAACTGGGGCATAT 1046
DB 241 TTTGCAAGTTGAGGTTGGCAGACAGAGATCTCTGAGCAAGGGGCAACTGGGGCATAT 300
QY 1047 GGGCTTGCATATAGTGTGAGGTTGGTAGAATGTGATCATGCTTGTGTTTAAAGTT 1106
DB 301 GGGCTTGCATATAGTGTGAGGTTGGTAGAATGTGATCATGCTTGTGTTTAAAGTT 360
QY 1107 CTTTGGAGTGAAGTGTACTGAAATFACGTCTTCTGATTCCTTGTGCTTGCAGCTCAATTAT 1166
DB 361 CTTTGGAGTGAAGTGTACTGAAATFACGTCTTCTGATTCCTTGTGCTTGCAGCTCAATTAT 420
QY 1167 TCGTTATCTGATTTCCATGACTTCAATGCTCTTCTTCCAGTACTTCATCCATTCGG 1226
DB 421 TCGTTATCTGATTTCCATGACTTCAATGCTCTTCTTCCAGTACTTCATCCATTCGG 480
QY 1227 CTCACCTTTCACCCATAATGTAGTAGACTACCTCCATTTGTGCTGTCTCA 1277

Db 481 CTCACCTCTCACCAATAATAGTAGACTACCTCCATTGCTGCTGTCA 531

RESULT 3

ABL64686
ID ABL64686 standard; DNA; 5096 BP.
XX
AC ABL64686;
XX
DT 15-MAY-2002 (first entry)
XX
DE Stomach cancer related gene sequence SEQ ID NO:3023.
XX
KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilms' tumour; adenocarcinoma;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN WO200194629-A2.
XX
PD 13-DEC-2001.
XX
PP 30-MAY-2001; 2001WO-US10838.
XX
PR 05-JUN-2000; 2000US-209473P.
PR 05-JUN-2000; 2000US-209531P.
PR 18-SEP-2000; 2000US-233133P.
PR 18-SEP-2000; 2000US-233617P.
PR 20-SEP-2000; 2000US-234009P.
PR 20-SEP-2000; 2000US-234034P.
PR 20-SEP-2000; 2000US-234052P.
PR 22-SEP-2000; 2000US-234509P.
PR 22-SEP-2000; 2000US-234567P.
PR 25-SEP-2000; 2000US-234923P.
PR 25-SEP-2000; 2000US-234924P.
PR 25-SEP-2000; 2000US-235077P.
PR 25-SEP-2000; 2000US-235082P.
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PR 03-OCT-2000; 2000US-237425P.
PR 03-OCT-2000; 2000US-237598P.
PR 03-OCT-2000; 2000US-237604P.
PR 03-OCT-2000; 2000US-237606P.
PR 03-OCT-2000; 2000US-237608P.
PR 01-NOV-2000; 2000US-244867P.
PR 01-NOV-2000; 2000US-245084P.
XX
PA (AVAL-) AVALON PHARM.

Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;

PI Soppet DR, Weaver Z;
XX
XX WPI; 2002-188264/24.
XX
PT Screening for anti-neoplastic agent involves exposing cells to a
PT chemical agent to be tested for anti-neoplastic activity, and
PT determining a change in expression of a gene of a signature gene set -
XX
XX
PS Claim 1; SEQ ID 3023; 44pp; English.
XX

CC The present invention describes a method (M1) for screening for an
CC anti-neoplastic agent. The method involves exposing cells to a chemical
CC agent to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening
CC an anti-neoplastic agent, and can be used for producing a product which
CC is the data collected with respect to the anti-neoplastic agent as a
CC result of M1, and the data is sufficient to convey the chemical
CC structure and/or properties of the agent. M1 can be used in the
CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
CC carcinoma, papillary carcinoma and Wilms' tumour.
XX

SQ Sequence 5096 BP; 1392 A; 1064 C; 1022 G; 1618 T; 0 other;

Query Match 21.5%; Score 289.6; DB 24; Length 5096;
Best Local Similarity 54.6%; Pred. No. 7.3e-78;
Matches 627; Conservative 0; Mismatches 509; Indels 12; Gaps 2;

QY 118 TCCACCTTTTGTACTGTGGGAGGCTGCATCTGCTTTGTACATGGTTAGAACTATTCGA 177
DB 110 TCCGTGTTCTCTGTCGTGGCGGAGACAAACGCGCGCTCAGCCTGAGCAGCACCTACCGC 169
QY 178 AAGNATAGTGAACATTACCGATGACATACACCTTTTCTTTCTTTATGTTTTCATTCATT 237
DB 170 TCGGGGGGGAGCCGATGTGGCGGCGCTGACGTGCTTTCTCGTACTGCTTGGCGG 229
QY 238 ATGCTCCAGTTGACCCCTCATTTTGTCCACAGAGATCTAGCCAAAGATAAACCGCTATCA 297
DB 230 CTGCTGAGCTCAGCTTCTTCTGTACACCGGACCTCAGCCGCGCCGCTCGTA 289
QY 298 TTATTTATGCATTAATCTCTTTGGGACCTGTTATACAGATGTTTGGAGGCCNTGATTAAG 357
DB 290 CTGCTGCTGACCTGCTGCAACTTGGGCCCTTTTTCAGGTGTTTGAAGTCTTCTGCATC 349
QY 358 TACCTCACACTGTGGAGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 417
DB 350 TACTTTC-----AGTCAGGCAACAANTGAAGAGCCTTATGTGCTATATCACCAGAAG 400
QY 418 AAG---ATGCTAATAGATGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 474
DB 401 AGCAATGCAAAATATGCTCTCAGAGAGATGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAG 460
QY 475 CGGACCTGGCTATGACACCGCAATGCCCTCAAAACGTATGTACAGATGTCAGAGCTTCTCTG 534
DB 461 GGCAAACTAATCAACCCACCGATCAGCGTTTTCAGCGCGCGCTCGGTGATCCAGGCTTTCTTG 520
QY 535 GGCTCAGTGGCCGAGCTATCAGCTTATGTGAGCCCTGATCTCTGCAGAGGTTCCC 594
DB 521 GGCTCAGCCCCCAGCTGACCCCTACAGCTGTACATAAGTGTGCTGACGAGGAGGAGGAGGAG 580
QY 595 CTGGGTAGAGTGTGCTAATGTTATTTTCCCTGTTATCTGTGCTATCTGCTGAGGAGGAGGAGGAG 654
DB 581 GTTGGAGAAGTCTCTCATGACCATATCCCTGTTGCTCATTTGTTGATGAGGCTTTGGGC 640
QY 655 TGAATATGTTGGCTATCCAGATCAAGTACGATGACTACAGATTCGCTTTGGGCCACTA 714
DB 641 TGCAACATCTAGCCATCAAAATCAAGTACGATGAGTATGAAGTCAAAAGTGAAGGAGGAGGAGGAG 700


```
QY 925 CTGGTGGTCTGATTTTCAGTCACCATCTCTATGCTGGGCAATCAACTTCTCTGCTGGTCA 984
DB 1030 ACCATTGTACTATGCTTTCTTAACCTTTACTCTATGCTGGTATCAACATGTTCTGCTGGTCT 1089
QY 985 GCTTTGTCAGTTGAGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTGGGGACAT 1044
DB 1090 GCTGTACACTGAATTTGACGCCCTGACCTCATGACAAAGTCCCATTAATTTGGTACCAG 1149
QY 1045 ATGGGCTGCACTATATGTTGAGGTTGGTAGAAGTGTGATCATGCTCTTGGTTTTTAAG 1104
DB 1150 CTACTGGTGTATTACATGATAAGATTTCATGAGAATGCCATCCTCTCTCTGCTGGTAT 1209
QY 1105 TTCTTTGGAGTGAAGTGTACTGAATTTACTGTGTCATCTCTTGTGCTGGTGGAGTCAAT 1164
DB 1210 CTTTTCAAGACTGACATCTATATGTATGTGTGGCGCACCTCTGTGTGGTCTGCGAGTCTC 1269
QY 1165 ATTGCTTATCTGATTTCCATTGACTTCATGCTCTCTTTCTTCCAGTACTTGTGATCCATTG 1224
DB 1270 ATTGGGTACTGACAGCCATCTCTTCACTGCTTGTATTTCTATCAGTTCTTCCACCTTGC 1329
QY 1225 CGTCACTCTTCAACCCATTAATGTAGTAGACTACCTCCA 1262
DB 1330 AAAAAGCTCTTTCTTCCAGTGTTTCTGAGGGCTTTCA 1367

RESULT 5
ABA46582
ID ABA46582 standard; DNA; :668 BP.
XX
AC ABA46582;
XX
XX 01-FEB-2002 (first entry)
XX
DE Human breast cell single exon nucleic acid probe #5277.
XX
XX Human; microarray; single exon probe; gene expression; breast;
KW disease; cancer; ss.
XX
XX Homo sapiens.
XX
XX WO200157271-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US00662.
XX
XX 04-FEB-2000; 2000US-0180312.
XX
XX 26-MAY-2000; 2000US-0207456.
XX
XX 30-JUN-2000; 2000US-0608408.
XX
XX 03-AUG-2000; 2000US-0632366.
XX
XX 21-SEP-2000; 2000US-0234687.
XX
XX 27-SEP-2000; 2000US-0236359.
XX
XX 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-496933/54.
XX
XX New spatially-addressable set of single exon nucleic acid probes,
XX useful for measuring gene expression in sample derived from human
XX breast, comprises number of single exon nucleic acid probes -
XX
XX Claim 4; SEQ ID NO 5277; 327pp + sequence listing; English.
XX
XX The invention relates to a spatially-addressable set of single exon
XX nucleic acid probes for measuring gene expression in a sample derived
XX from human breast and Br 474 cells. The method involves contacting
XX the probes with a collection of detectably labelled nucleic acids
XX derived from mRNA of human breast, and then measuring the label
XX bound to each probe of the microarray. The probes are useful for
XX verifying the expression of regions of genomic DNA predicted to
```

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CC encode proteins. They are useful for gene discovery, and for
CC determining predisposition and/or prognosing breast disease. Gene
CC expression analysis is useful for assessing the toxicity of chemical
CC agents on cells. The microarray of this invention presents a far greater
CC diversity of probes for measuring gene expression, with far less bias
CC than expressed sequence tag microarrays. The method is suitable for
CC rapid production of functional information from genomic sequence. The
CC present sequence is a single exon nucleic acid probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
SQ
Query Match 20.0%; Score 270.6; DB 22; Length 668;
Best Local Similarity 65.1%; Pred. No. 1.5e-72;
Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;
QY 618 ATTTTCCCTGGTATCTGTCACTATGCGGCCACCTTTGCAATATATTTGGCTATCCAGAT 677
DB 2 ATTTTCCCTGGTATCTGTCACTATGCGGCCACCTTTGCAATATATTTGGCTATCCAGAT 61
QY 678 CAAGTACGATGACTACAGATTTCGGCTTGGGCCACTAGAGTCCCTGCTGATCACCATCTG 737
DB 62 CAGCAATGATGATACCTACCAATTAAGCTACGGCCGATAGAATTTCTCTGTGTGATGTG 121
QY 738 GGGACATTTGGAGATCACTTCCCGCCTCTGATTTCTGGTGCTCTCTCAGCCACTTTGAA 797
DB 122 GCGTTTTTGGAGTTATCTCAGTGTAGTACTCTGGCATTTTTCATTTGCATCTCTGAA 181
QY 798 ATTGAAGGCTGTGCCCTTCTTAGTGTCTCAACTTCTGTGATCATCTCTTTGAGCCCTGGAT 857
DB 182 ACTGAAGAGCCTACCGGTTTGTGTAATCATATATTTTGTATCATTTGTCGACCGTGGCT 241
QY 858 TAAGTTCTCGAGAACTGGTGGCCAGATGCCAATACATTTGAGAAAACCTTCAGCCGGGT 917
DB 242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGCGCAACAAAGAAAATAATTTCCAATATGGT 301
QY 918 CGGCACTGTGGTGGTCTGATTTTCAGTCACTACCATCTCTATGCTGGCATCAACTTCTCTTG 977
DB 302 GGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCTGCCATCAACTTCTCTTG 361
QY 978 CTGGTCAGCTTTGTCAGTTGAGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTG 1037
DB 362 CTGGTCAGCAGTGAAACTGCAGTTGTGAGATGACAAAATAATTTGACGGGAGACAGAGGTG 421
QY 1038 GGCACATATGGGCCCTGCACTATAGTGTGAGTTGGTAGAGAAATGCTGATCTGCTTGGT 1097
DB 422 GGGCCATAGAAATCCTACACTACAGCTTTTCAGTTTGTAGAAAATGTGATATATGATATGGT 481
QY 1098 TTTTAAAGTTCTTTGGAGTGAAAGTGTACTGAATTAATGCTCATTTCTTGTGCTTGGCTTGA 1157
DB 482 ATTTAGTCTTTTGGAGGGAACCTTTGCTGAATTTGCTGACTCATTAATTTGCCGTGCA 541
QY 1158 GCTCATATTGCTTATCTGATTTCCATTTGATGCTTCTCTCTTTTCTTCCAGTACTTGA 1217
DB 542 GCTCATATAAAGCTACTATTTGGCCACTGCTTTATGCTCTCTCTCTATCAGTATTTGTA 601
QY 1218 TCCATTTGGCTCA 1230
DB 602 CCCATGGCAGTCA 614

RESULT 6
ABA64445
ID ABA64445 standard; DNA; 668 BP.
XX
XX ABA64445;
XX
XX 01-FEB-2002 (first entry)
XX
XX Human foetal liver single exon nucleic acid probe #12750.
XX
```

Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

Homo sapiens.

WO200157277-A2.

09-AUG-2001.

30-JAN-2001; 2001WO-US00669.

04-FEB-2000; 2000US-0180312.

26-MAY-2000; 2000US-0207456.

30-JUN-2000; 2000US-0608408.

03-AUG-2000; 2000US-0632366.

21-SEP-2000; 2000US-0234687.

27-SEP-2000; 2000US-0236359.

04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

Penn SG, Hanzel DK, Chen W, Rank DR;

WPI; 2001-483447/52.

Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human fetal liver.

Claim 4; SEQ ID NO 12750; 639pp + sequence listing; English.

The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human foetal liver. The present sequence is a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 20.0%; Score 270.6; DB 22; Length 668;

Best Local Similarity 65.1%; Pred. No. 1.5e-72;

Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;

Qy 618 ATTTTCCCTGGTATCTGCACCTATGGGGCCACCTTTGCAATATGTTGGCTATCCAGAT 677

Db 2 ATTTTCCCTGGTATCTGCACCTATGGGGCCACCTTTGCAATATGTTGGCTATCCAGAT 61

Qy 678 CAAATGATGATGATCAAGATTCGGCTTGGGCACTAGAGTCTCTGCATCACCATCTG 737

Db 62 CAGCAATGATGATGATCAAGATTCGGCTTGGGCACTAGAGTCTCTGCATCACCATCTG 121

Qy 738 GCGGACATGGAGATCACTCCCGCTCTGATGTTGGTGTCTTCTCAGCCACTTTGAA 797

Db 122 GCGTATTTGGAGGTTATCTCAGGTGATGACTCTGGCAATTTTTCATTGTCATCTCTGAA 181

Qy 798 ATTGAAGCTGTGCTTCCCTAGTCTCACTTCTGATCATCTCTTGGCCCTGAT 857

Db 182 ACTGAAGACCTTACCCTGTTTGTATATATATTTGTATATGTTGGCACCGTGGCT 241

Qy 858 TAAATTTCTGGAGAGTGTGCGCCAGATGCCAATAAATGAGAAATCTTTCAGCCGGT 917

Db 242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGGCACAAGAAATATTCATATGAT 301

Qy 918 CGGCACTCTGGTGTGATGATTTTCAGTCAACCATCTCTATGTCGATCAATCTCTTG 977

Db 302 GGGTACAGTACTGATGCTTTCTTTCATCAGCTGATATGTCGATCAATCTCTCTG 361

Qy 978 CTGTCAGCTTTCAGTTCAGTTCGGCAGAGATCTCTGTCACAAGGCGCACTG 1037

Db 362 CTGTCAGCTTTCAGTTCAGTTCGGCAGAGATCTCTGTCACAAGGCGCACTG 421

Qy 1038 GGGACATATGGCCTGCATATAGTGTGAGGTTGGTAGAATGTGATCATGCTTGTG 1097

Db 422 GGGCATAGATCTTACACTACAGCTTTCAGTTTTTGAATAATGTGATATGATTTGT 481

Qy 1098 TTTTAAGTCTTTGGAGTGAAGTGTACTGAATPACTGTCTCATCTTGTGCTTGA 1157

Db 482 ATTTAGGTTCTTTGGAGGGAACCTTTGCTGAATTTGTTGACTCATTAATTTGCCGTGCA 541

Qy 1158 GCTCATTTATGCTTATCTGATTTCCATTTGATGCTTCTCTCTCTCTCTCTCTCT 1217

Db 542 GCTCATTTATGCTTATCTGATTTCCATTTGATGCTTCTCTCTCTCTCTCTCTCT 601

Qy 1218 TCCATTTGCGTCA 1230

Db 602 CCCATGGCAGTCA 614

RESULT 7

ABA31582

ID ABA31582 standard; DNA; 668 BP.

AC ABA31582;

XX 23-JAN-2002 (first entry)

DE Probe #10048 for gene expression analysis in human heart cell sample.

XX Human; gene expression; heart; microarray; vascular system; probe;

XX cardiovascular disease; hypertension; cardiac arrhythmia;

XX congenital heart disease; ss.

OS Homo sapiens.

PN WO200157274-A2.

XX 09-AUG-2001.

PD 30-JAN-2001; 2001WO-US00666.

PF 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488899/53.

XX Single exon nucleic acid probes for analyzing gene expression in human hearts.

PS Claim 4; SEQ ID NO 10048; 530pp; English.

XX The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart. The present sequence is one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human heart and vascular system e.g. cardiovascular disease, hypertension, cardiac arrhythmias and congenital heart disease.

XX Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match	20.0%	Score 270.6	DB 22	Length 668
Best Local Similarity	65.1%	Pred. No. 1.5e-72		
Matches 399	Conservative 0	Mismatches 214	Indels 0	Gaps 0
Qy 618	ATTTTCCCTGTACTGTACACTATGGGGCCACCTTTGGCAATATGTGGCTATCCAGAT	677		
Db 2	ATTTTCCCTGTATCAGTTACTTATGGGGCCANTCGCTGCAATATCTGGCCATCCAGAT	61		
Qy 678	CAAGTACGATGACTACAAGATTTCGGCTTTGGGCCACTAGAAAGTCCTCTGCATCACCATCTG	737		
Db 62	CAGCAATGATGATACCTACCAATTAAGCTACCCGCGATAGAAATCTTCTGTGCTGATGTG	121		
Qy 738	CGGACATTTGAGATCACTTCGCGCTCCTGATTCCTGCTGCTCTCTCTCAGCCACTTTGAA	797		
Db 122	CGCTTTTGGAGGTTATCTCAGCTGTAGTCACTCTGGCAATTTTTCATTTGATCTCTGAA	181		
Qy 798	ATTGAAGSCTGTGGCTTCTAGTCTCAACTTCTCTGATCATCTCTTTGAGCCCTGGAT	857		
Db 182	ACTGAAGAGCCTACCCGTTTGTAAATCATATATTTTGTATCATTTGTTGGCACCGTGGCT	241		
Qy 858	TAAGTTCTTGGAGAAAGTGGTGGCCAGATGCCCAATTAACATTTAGAGAAAACTTCAGCCGGT	917		
Db 242	GGAGTTTGGAAAGTGGAGCTCATCTTCTGGCAACAAGAAATATTTCCAATATGCT	301		
Qy 918	CGGCACTCTGGTGTCTGATTTTCACTCAACCTCTATGCTGGCATCAACTTCTCTTG	977		
Db 302	GGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCTGCCATCAACTTCTCTG	361		
Qy 978	CTGCTCAGCTTTGCACTTGGAGTTGGCAGACAGAGATCTCTGCGACAAAGGCAGACTG	1037		
Db 362	CTGGTCAAGCAGTGAACCTGCAATTTCTCAGATGACAAAAATAATTTGACGGGAGACAGAGTG	421		
Qy 1038	GGGACATATGGCCCTGCACCTATGATGTGAGGTTGGTAGAAGATGTGATCATGCTTTGGT	1097		
Db 422	GGGCAATAGATCTTACACTACGCTTTTCAGTTTTAGAAAATGATTAATATGATTTGCT	481		
Qy 1098	TTTTAAGTTCTTTGGAGTCAAAAGTGTTACTGAATTACTGCAATTCCTTGAATTCCTTGA	1157		
Db 482	ATTTAGTTCTTTGGAGGAAACTTTGCTGAATTTGCTGACTCATTAATTTGCCGTGCA	541		
Qy 1158	GCTCATATTTGCTTATCTGATTTCCATGACTTTCATGCTCTCTTTCTCCAGTACTTGA	1217		
Db 542	GCTCATATAAGTACTACCTATTGGCCACTGGCTTTATGCTCTCTCTCTATCAGTATTTGTA	601		
Qy 1218	TCCATTTGCGCTCA 1230			
Db 602	CCCATGGCAGTCA 614			
RESULT 8				
AAK12903				
ID	AAK12903 standard; DNA; 668 BP.			
XX	AC			
XX	AC			
XX	XX			
DT	05-NOV-2001 (first entry)			
DE	Human brain expressed single exon probe SEQ ID NO: 12894.			
XX				
KW	Human; brain expressed exon; gene expression analysis; probe;			
KW	microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;			
KW	epilepsy; cancer; ss.			
OS	Homo sapiens.			
XX				
FN	WO200157275-A2.			
XX				
PD	09-AUG-2001.			
XX				
PF	30-JAN-2001; 2001WO-US00667.			
XX				
PR	04-FEB-2000; 2000US-0180312.			
PR	26-MAY-2000; 2000US-0207456.			

[illegible]

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Db 602 CCCATGGCAGTCA 614
RESULT 9
AAK38630
ID AAK38630 standard; DNA; 668 BP.
XX
AC AAK38630;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human bone marrow expressed single exon probe SEQ ID NO: 13187.
XX
KW Human; bone marrow expressed exon; gene expression analysis; probe;
KW microarray; cancer; leukaemia; lymphoma; myeloma; ss.
XX
OS Homo sapiens.
XX
PN WO200157276-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00668.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
WPI; 2001-488900/53.
XX
DR Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human bone marrow -
XX
PS Example 4; SEQ ID NO: 13187; 658pp + Sequence Listing; English.
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC bone marrow. They can be used to measure gene expression in bone marrow
CC samples, which may enable the improved diagnosis and treatment of cancers
CC such as lymphoma, leukaemia and myeloma. The present sequence is one of
CC the probes of the invention.
XX
SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 20.0%; Score 270.6; DB 22; Length 668;
Best Local Similarity 65.1%; Pred. No. 1.5e-72;
Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;

QY 618 ATTTCCCTGGTATCTGTCACTATGGGCGCCACCTTTTGCATATGTTGGCTATCCAGAT 677
Db 2 ATTTCCCTGGTATCTGTCACTATGGGCGCCACCTTTTGCATATGTTGGCTATCCAGAT 61
QY 678 CAAGTACGATGACTACAGATTTGGCTTGGGCGCCACCTAGAGTCTCTGTCATCACCATCTG 737
Db 62 CAGCAATGATGATACCTACCACTACCGCGGATAGAAATCTTCTGTGTCGTATG 121
QY 738 GCGGACATGGAGATCACTTCCGCTCTGATCTGGGCTCTTCTGAGCACCTTTGAA 797
Db 122 GCGTATTTTGGAGGTTATCTCAGTGTAGTGACTCTGGCAATTTTTCATTTGCAATCTCTGAA 181
QY 798 ATTGAAGGCTGTGCGCTTCTAGTGTCTCAACTTCTGTGATCATCTCTTTGAGCCCTGGAT 857
Db 182 ACTGAAGACCTTACCGGTTTGTATCATATATATTTGTATCTGTTGGCACCTGGCT 241
QY 858 TAAGTCTGGAGAAGTGGTGGCCAGATGCCAATAACATTTGAGAAAAAATTCAGCGCGGT 917

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Db 242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAAATAATTCCAATATGT 301
QY 918 CGGCACCTCTGGTGGTCCGATTTTCAGTGCACCATCTCTATGCTGCATCAACTTCTCTG 977
Db 302 GGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCTGCCATCAACTTCTCTG 361
QY 978 CTGGTCAGCTTTTCAGTGTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGCGAGAACTG 1037
Db 362 CTGGTCAGCAGTGAACCTGCACTTCTCAGATGACAAATAATTGACGGGAGACAGAGGTG 421
QY 1038 GGGACATATGGCCCTGCACTATATAGTGTGAGGTTGGTAGAATGTGATCATGGTCTTGT 1097
Db 422 GGGCCATAGATCTTACACTACAGCTTTTTCAGTGTGAGGTTGGTAGAATGTGATCATGGT 481
QY 1098 TTTTAAGTCTTTTCAGTGTGAGGTTGGTAGAATGTGATCATGGTCTTGTGATCATGGT 1157
Db 482 ATTTAGGTTCTTTGGAGGGAACCTTTGCTGAATTTGTTGACTCATTAATTTGCCGTGCA 541
QY 1158 GCTCATTTATGCTTATCTGATTTCCATTTGACTTTCATGCTCTCTTTCTTCCAGTACTTGA 1217
Db 542 GCTCATCATAGCTACTTATTTGGCCACTGGCTTTATGCTCTCTTCTTCTATCATGATTTTGA 601
QY 1218 TCCATTGGCTCA 1230
Db 602 CCCATGGCAGTCA 614

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RESULT 10
AAI19430
ID AAI19430 standard; DNA; 668 BP.
XX
AC AAI19430;
XX
DT 12-OCT-2001 (first entry)
XX
DE Probe #9363 for gene expression analysis in human cervical cell sample.
XX
KW Probe; human; microarray; gene expression; cervical epithelial cell;
KW cervical cancer; ss.
XX
OS Homo sapiens.
XX
PN WO200157278-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00670.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
WPI; 2001-488901/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human cervical epithelial cells -
XX
PS Claim 25; SEQ ID NO 9363; 487pp; English.
XX
CC The present invention relates to human single exon nucleic acid probes
CC (SENPs). The present sequence is one such probe. The SENPs are derived
CC from human HeLa cells. The SENPs can be used to produce a single exon
CC microarray, which can be used for measuring human gene expression in a
CC sample derived from human cervical epithelial cells. By measuring gene

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CC expression, the probes are therefore useful in grading and/or staging
 CC of diseases of the cervix, notably cervical cancer.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX
 SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
 Query Match 20.0%; Score 270.6; DB 22; Length 668;
 Best Local Similarity 65.1%; Pred. No. 1.5e-72;
 Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;
 QY 618 ATTTTCCCTGGTATCTGTCACTATGCGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 677
 Db 2 ATTTTCCCTGGTATCTGTCACTATGCGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 61
 QY 678 CAAGTACGATGACTACAGATTGCGCTTGGGCCCACTAGAGTCTCTGCAATCAGATCTG 737
 Db 62 CAGCAATGATGATACCTACCAATTAAGCTACCGCGGATAGAAATTTCTGTGTGATG 121
 QY 738 GCGGACATTTGGAGATCACTTCCCGCTTCTGATTTCTGTGCTCTTCTCAGCCACTTTGAA 797
 Db 122 GCGTTTTTGGAGGATTTCTCAGTGTAGTACTGCGGATTTTTCATTCATCTCTGAA 181
 QY 798 ATTTGAAGGCTGTGCCCTTCTAGTGTCTCACTTCTGATCATCTCTTGAAGCCCTGGAT 857
 Db 182 ACTGAAGAGCTTACCCGTTTGTATTAATCATATATTTGTATCATTTTGTGGCAGCTG 241
 QY 918 GCGCACTCTGGTGTCTGATTTTCACTCAGTCACATCTCTATGCTGGCATCAACTTCTCTG 977
 Db 302 GGGTACAGTACTGATGCTTTTCTGATCAGCTGATATGCTGCAATCACTTCTCTG 361
 QY 978 CTGCTCAGCTTTGCGATTGAGGTTGGCAGACAGAGATCTCTCGCAAAAGGCGCAACTG 1037
 Db 362 CTGCTCAGCAGTGAACCTGCGAGTTGTGAGATGACAAATAATTTGACGGGAGACAGAG 421
 QY 1038 GGGACATATGGGCTGCACTATGATGTGAGGTTGGTAGAGATGATGATGCTTGGT 1097
 Db 422 GGGCCATAGAAATCTTACACTACAGCTTTCAGTTTTTGTAGAAATGTGATATGATTTGGT 481
 QY 1098 TTTTAAGTCTTTTGGAGTGAAGTGTGTACTGAATTTACTGCAATTTCTTGTGATCTTGA 1157
 Db 482 ATTTAGGTTCTTTGGAGGGAAGAACTTTGCTGGAATTTGTGACTCATTTAATTCGCTG 541
 QY 1158 GCTCATTTATGCTTATCTGATTTTCCATTTGACTTTCATGCTCTCTTCTTCTTCCAGTACTG 1217
 Db 542 GCTCATATAAGCTTACCTATTGGCCACTGGCTTTTATGCTCTCTTCTTATCAGTATTGTA 601
 QY 1218 TCGATTGGCTCA 1230
 Db 602 CCCATGGCAGTCA 614

RESULT 11

AA144621
 ID AA144621 standard; DNA; 668 BP.

XX
 AC
 XX
 XX
 XX

DT 17-OCT-2001 (first entry)

XX Probe #13307 used to measure gene expression in human placenta sample.

DE Probe; microarray; human; placenta; antenatal diagnosis;

XX Probe; microarray; human; placenta; antenatal diagnosis;

XX genetic disorder; ss.

XX Homo sapiens.

OS

XX

PN W0200157272-A2.

XX 09-AUG-2001.
 PD
 XX
 PF 30-JAN-2001; 2001WO-US00663.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 (MOLE-) MOLECULAR DYNAMICS INC.
 PA Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-48897/53.
 XX
 DR Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human placenta -
 PT
 PS Claim 25; SEQ ID No 13307; 654pp; English.
 XX
 CC The present invention relates to single exon nucleic acid probes (SNP).
 CC The present sequence is one such probe. The probes are useful for
 CC producing a microarray for predicting, measuring and displaying gene
 CC expression in samples derived from human placenta. The probes are useful
 CC for antenatal diagnosis of human genetic disorders.
 XX
 SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
 Query Match 20.0%; Score 270.6; DB 22; Length 668;
 Best Local Similarity 65.1%; Pred. No. 1.5e-72;
 Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;
 QY 618 ATTTTCCCTGGTATCTGTCACTATGCGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 677
 Db 2 ATTTTCCCTGGTATCTGTCACTATGCGGCCACCCCTTTGCAATATGTTGGCTATCCAGAT 61
 QY 678 CAAGTACGATGACTACAGATTGCGCTTGGGCCCACTAGAGTCTCTGCAATCAGATCTG 737
 Db 62 CAGCAATGATGATACCTACCAATTAAGCTACCGCGGATAGAAATTTCTGTGTGATG 121
 QY 738 GCGGACATTTGGAGATCACTTCCCGCTTCTGATTTCTGTGCTCTTCTCAGCCACTTTGAA 797
 Db 122 GCGTTTTTGGAGGATTTCTCAGTGTAGTACTGCGGATTTTTCATTCATCTCTGAA 181
 QY 798 ATTTGAAGGCTGTGCCCTTCTAGTGTCTCACTTCTGATCATCTCTTGAAGCCCTGGAT 857
 Db 182 ACTGAAGAGCTTACCCGTTTGTATTAATCATATATTTGTATCATTTTGTGGCAGCTG 241
 QY 858 TAAGTTCTGGAGAGTGGTGGCCAGATGCCCAATACATTTGAGAAACTTTCAGCCGGGT 917
 Db 242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAATAATTTCCAATATG 301
 QY 918 GCGCACTCTGGTGTCTGATTTTCACTCAGTCACATCTCTATGCTGGCATCAACTTCTCTG 977
 Db 302 GGGTACAGTACTGATGCTTTTCTGATCAGCTGATATGCTGCAATCACTTCTCTG 361
 QY 978 CTGCTCAGCTTTGCGATTGAGGTTGGCAGACAGAGATCTCTCGCAAAAGGCGCAACTG 1037
 Db 362 CTGCTCAGCAGTGAACCTGCGAGTTGTGAGATGACAAATAATTTGACGGGAGACAGAG 421
 QY 1038 GGGACATATGGGCTGCACTATGATGTGAGGTTGGTAGAGATGATGATGCTTGGT 1097
 Db 422 GGGCCATAGAAATCTTACACTACAGCTTTCAGTTTTTGTAGAAATGTGATATGATTTGGT 481
 QY 1098 TTTTAAGTCTTTTGGAGTGAAGTGTGTACTGAATTTACTGCAATTTCTTGTGATCTTGA 1157
 Db 482 ATTTAGGTTCTTTGGAGGGAAGAACTTTGCTGGAATTTGTGACTCATTTAATTCGCTG 541
 QY 1158 GCTCATTTATGCTTATCTGATTTTCCATTTGACTTTCATGCTCTCTTCTTCTTCCAGTACTG 1217

Db	542	GCTCATATAAGCTACCTATGGCCACCTGGCTTTATGCTCTCTCTATCATGATTTGTA	601
Qy	1218	TCCATTGCGCTCA	1230
Db	602	CCCATGCCAGTCA	614
RESULT 12			
AAI05155			
ID	AAI05155	standard; DNA; 668 BP.	
XX	AAI05155;		
AC	AAI05155;		
XX	09-OCT-2001	(first entry)	
XX	Probe #5146	used to measure gene expression in human breast sample.	
DE	XX	Probe; human; breast disease; breast cancer; development disorder; ss;	
XX	KW	inflammatory disease; proliferative breast disease; non-carcinoma tumour.	
XX	OS	Homo sapiens.	
XX	PN	WO200157270-A2.	
XX	PD	09-AUG-2001.	
XX	PP	29-JAN-2001; 2001WO-US00661.	
XX	PR	04-FEB-2000; 2000US-0180312.	
XX	PR	26-MAY-2000; 2000US-0207456.	
XX	PR	30-JUN-2000; 2000US-0608408.	
XX	PR	03-AUG-2000; 2000US-0632366.	
XX	PR	21-SEP-2000; 2000US-0234687.	
XX	PR	27-SEP-2000; 2000US-0236359.	
XX	PR	04-OCT-2000; 2000GB-0024263.	
XX		(MOLE-) MOLECULAR DYNAMICS INC.	
XX	PI	Penn SG, Hanzel DK, Chen W, Rank DR;	
XX	XX	WPI; 2001-476286/51.	
XX	XX	Novel single exon nucleic acid probe used to measuring gene expression in a human breast -	
XX	PS	Claim 25; SEQ ID No 5146; 322pp; English.	
XX	CC	The present invention relates to novel single exon nucleic acid probes. The present sequence is one such probe. The probes are useful for measuring human gene expression in a human breast sample, where the probe hybridises at high stringency to a nucleic acid expressed in the human breast. The probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human breast, particularly those diseases with polygenic aetiology. The diseases include: breast cancer, disorders of development, inflammatory diseases of the breast, fibrocystic changes, proliferative breast disease and non-carcinoma tumours.	
XX	CC	Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.	
XX	XX	Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;	
Qy	Query Match	20.0%; Score 270.6; DB 22; Length 668;	
Db	Best Local Similarity	65.1%; Pred. No. 1.5e-72;	
Qy	Matches 399; Conservative	0; Mismatches 214; Indels 0; Gaps 0	
Qy	618	ATTTTCCTGTTACTGTCACCTATGGGGCCACCCCTTCGAATATGTTGGCTATCCAGT	677
Db	2	ATTTTCCTGTTACTGTTACTGTTATGGGGCCATTCGCTCAATATACTGGCCATCCAGT	61
Qy	678	CAAGTAGCATGACTACAAAGATTCCGCTTGGGGCCACTAGAAAGTCCCTCTGCATCACCATCTG	737

PR 27-SEP-2000; 2000US-236359P.
PR 04-OCT-2000; 2000GB-0024263.

PA (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2002-114183/15.

XX Spatially-addressable set of single exon nucleic acid probes, used to
XX measure gene expression in human lung samples -

PS Claim 4; SEQ ID NO 12690; 634pp; English.

XX The invention relates to a spatially-addressable set of single exon
XX nucleic acid probes for measuring gene expression in a sample derived
XX from human lung comprising single exon nucleic acid probes having one of
XX 12614 nucleic acid sequences mentioned in the specification, or their
XX complements or the 12387 open reading frames derived from the 12614
XX probes. Also included are a microarray comprising the novel set of
XX probes; the novel set of probes which hybridize at high stringency to a
XX nucleic acid expressed in the human lung; measuring gene expression in a
XX sample derived from human lung, comprising (a) contacting the array with
XX a collection of detectably labeled nucleic acids derived from human lung
XX mRNA, and (b) measuring the label detectably bound to each probe of
XX the array; identifying exons in a eukaryotic genome, comprising
XX (a) algorithmically predicting at least one exon from genomic sequences
XX of the eukaryote; and (b) detecting specific hybridization of detectably
XX labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
XX having a fragment identical to the predicted exon, the probe is included
XX in the above mentioned microarray; assigning exons to a single gene,
XX comprising (a) identifying exons from genomic sequence by the method
XX above and (b) measuring the expression of each of the exons in several
XX tissues and/or cell types using hybridization to a single exon
XX microarrays having a probe with the exon, where a common pattern of
XX expression of the exons in the tissues and/or cell types indicates that
XX the exons should be assigned to a single gene; a peptide comprising one
XX of 12011 sequences, mentioned in the specification, or encoded by the
XX probes/open reading frames (ORF). The probes are used for gene
XX expression analysis, and for identifying exons in a gene, particularly
XX using human lung derived mRNA and for the study of lung diseases
XX such as asthma, lung cancer, chronic obstructive pulmonary disease
XX (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
XX fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
XX Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
XX haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomatosis,
XX pulmonary alveolar proteinosis, Karagenen syndrome, fibrocystic
XX pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension
XX and hyaline membrane disease. The present sequence is a single exon
XX probe open reading frame of the invention.

XX Note: The sequence data for this patent did not form part

XX of the printed specification, but was obtained in electronic

XX format directly from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

XX Query Match 20.0%; Score 270.6; DB 24; Length 668;

XX Best Local Similarity 65.1%; Pred. No. 1.5e-72;

XX Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;

QY 618 ATTTTCCCTGGTATCTGTCACTATGGGCGCACCTTTGCAATATGTTGGCTATCCAGAT 677

DB 2 ATTTTCCCTGGTATCTGTCACTATGGGCGCACCTTTGCAATATGTTGGCTATCCAGAT 61

QY 678 CAAGTAGCATGATACAGATTGCGCTTGGGCGCACTAGAGTCTCTGCATCACCATCTG 737

DB 62 CAGCAATGATGATACCTACCACTTAAGCTACCGCGCATAGAAATCTCTGTGCTGATG 121

QY 738 GCGGACATGGAGATCACTTCCCGCTTCTGATTTGGTCTCTCTCAGCCACTTTGAA 797

DB 122 GCGTTTTTGGAGGTTATCTCAGCTGTAGTACTCTGGCATTTTTCATTCGATCTCTGAA 181

QY 798 ATTGAAGGCTGTGCCCTTCCCTAGTGTCTCAACTTCTGTATCATCTCTTTTGAGCCCTGAT 857
DB 182 ACTGAAGAGAGCCCTACCCGTTTGTGTTAAATCATATATTTTGTATCATTTGTTGGCACCCTGGCT 241
QY 858 TAAGTTCTGGAGAGTGTGCGCCAGATGCCCAATACATTGAGAAAACCTTCAGCCGGGT 917
DB 242 GAGGTTTTTGGAAAAGTGGAGCTCATCTTCTGGGCAACAAGAAAATAATTCATATGGT 301
QY 918 CGGCACCTCTGTGTGTCTCTGATTTTCTAGTCAACCATCTCTATGTGGCATCAACTTCTCTTG 977
DB 302 GGTACAGTACTGATGCTTTTCTGATCACACTGCTATATGCTGCCATCAACTTCTCTG 361
QY 978 CTGTCTAGCTTTTGCAGTTGAGTTGGGAGAGAGAGATCTCTGCGACAAAGGCGAGAACTG 1037
DB 362 CTGGTCAGCAGCTGAAACTGACAGTTGTGATGACAAAATAATTTGACGGGAGACAGAGGTG 421
QY 1038 GGGACATATGGGCTGCACTATAGTGTGAGCTTGGTAGAGATGTGATCATGTCTTGGT 1097
DB 422 GGGCCATAGAAATCTTACACTACAGCTTTTCTAGGTTTGTAGAAAATGTGATAATGATTTGGT 481
QY 1098 TTTTAAAGTTCTTTGGAGTGAAAGTGTCTGCAATTTACTGTCTCTTCTGATTCCTTGA 1157
DB 482 ATTTAGGTTCTTTGGAGGGAACCTTTGCTGATTTGTTGACTCATTAATTTGCCGTGCA 541
QY 1158 GCTCATATGCTTATCTGATTTTCAATGACTTCAATGCTCTCTTTTCTCCAGTACTTGA 1217
DB 542 GCTCATATAAGTACTACCTATTGGGCACTGGCTTTATGCTCTCTTCTATCATGATTTGTA 601
QY 1218 TCCATTGGCTCA 1230
DB 602 CCCATGGCAGTCA 614

RESULT 14

ABAS1767

ID ABAS1767 standard; DNA; 471 BP.

XX AC ABA51767;

XX DT 01-FEB-2002 (first entry)

XX Human foetal liver single exon nucleic acid probe #72.

XX Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
XX Homo sapiens.
XX WO200157277-A2.
XX 09-AUG-2001.
XX 30-JAN-2001; 2001WO-US00669.
XX 04-FEB-2000; 2000US-0180312.
XX 26-MAY-2000; 2000US-0207456.
XX 30-JUN-2000; 2000US-0608408.
XX 03-AUG-2000; 2000US-0632366.
XX 21-SEP-2000; 2000US-0234687.
XX 27-SEP-2000; 2000US-0236359.
XX 04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

Penn SG, Hanzel DK, Chen W, Rank DR;

WPI; 2001-483447/52.

Human genome-derived single exon nucleic acid probes useful for
analyzing gene expression in human fetal liver -

Claim 1; SEQ ID NO 72; 639pp + sequence listing; English.

The invention relates to a single exon nucleic acid probe for

CC measuring human gene expression in a sample derived from human foetal
CC liver. The single exon nucleic acid probes may be used for predicting,
CC measuring and displaying gene expression in samples derived from human
CC fetal liver. The present sequence is a single exon nucleic acid
CC probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 471 BP; 117 A; 94 C; 104 G; 156 T; 0 other;

Query Match 13.1%; Score 176.8; DB 22; Length 471;
Best Local Similarity 61.9%; Pred. No. 9.4e-44;
Matches 280; Conservative 0; Mismatches 172; Indels 0; Gaps 0;

Qy	601	AGAGTTGCTAATGGTATATTTCCCTGGTATCTGTCACTATGGGGCCACCCTTTGCAAT	660
Db	19	ATAGCAATTCGTGATGACATTTTCCCTGTATCAAGTTACTATGGGGCCATTCGCTGCAAT	78
Qy	661	ATGTTGGCTATCCAGATCAAGTACGATGACTACAAGATTCGCGTTCGGGCCACTAGAGTC	720
Db	79	ATACTGGGCATCCAGATCAGCAATGATGATCACTACCAATTAAGCTACGGCGGATAGAAATTC	138
Qy	721	CTCTGCATCAACCATCTCGCGGACATTTGGAGATCACTTCCCGCCTCCTGATTTCTGGTGCTC	780
Db	139	TTCTGTGTCGTGATGTGGCGTTTTTTTGGAGGTTATCTCACGTGTAGTACTCTGGCATTT	198
Qy	781	TTCTCAGCCACTTTGAATTTGAAGGCTGTGCCCTTCTAGTGTCTCAACTTCCTGATCATC	840
Db	199	TTCAATTCATCTCTGAAACTGGAAGAGCCTACCCCGTTTGTAACTATATATTTTGTATCA	258
Qy	841	CTCTTTGAGCCCTGGATTAAGTTCTGGAGAGTGGTGCCAGATGCCCAATCAACATTGAG	900
Db	259	TTGTTGGACCGTGGCTGGAGTTTGGAAAGTGGAGCTCATCTTCTGCAACAAGAA	318
Qy	901	AAAAACTTCAGCCGGGTGCGGACCTCGGTGGTCTGATTTCAGTCAACATCTCTTAGTCT	960
Db	319	AATAAATTCCAATATGTTGGGTACAGTACTGATGCTTTTCTTGTATCACACTGCTATATGCT	378
Qy	961	GGCATCAACTTCTCTGCTGTGAGCTTTTCAGTTGAGGTTTGGCAGACAGAGATCTCGTC	1020
Db	379	GCCATCAACTTCTCTGCTGTGAGCAGTGAAGACTGCAGTTGTTCAGATGACAAATTAAT	438
Qy	1021	GACAAAGGGCAGAACTCGGGACATATGGGCGCT	1052
Db	439	GACGGGAGACAGAGGTTGGGCGCATAGAAATCCT	470

RESULT 15

ABA21596

ID ABA21596 standard; DNA; 471 BP.

AC ABA21596;

DT 23-JAN-2002 (first entry)

Probe #62 for gene expression analysis in human heart cell sample.

XX Human; gene expression; heart; microarray; vascular system; probe;
KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease; ss.

OS Homo sapiens.

PN WO200157274-A2.

XX PD 09-AUG-2001.

XX
PF 30-JAN-2001: 2001WO-US00666.

XX
PR 04-FEB-2000: 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.

PR 30-JUN-2000; 2000US-0608408.

03-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236359.
04-OCT-2000; 2000GB-0024263.
(MOLE-) MOLECULAR DYNAMICS INC.
Penn SG, Hanzel DK, Chen W, Rank DR;
WPI; 2001-488899/53.
Single exon nucleic acid probes for analyzing gene expression in human hearts -
Claim 1; SEQ ID No 62; 530pp; English.
The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart. The present sequence is one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human heart and vascular system e.g. cardiovascular disease, hypertension, cardiac arrhythmias and congenital heart disease.
Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
Sequence 471 BP; 117 A; 94 C; 104 G; 156 T; 0 other;

Query Match	13.1%	Score 176.8;	DB 22;	Length 471;
Best Local Similarity	61.9%	Pred. No. 9.4e-44;		
Matches 280; Conservative	0;	Mismatches 172;	Indels 0;	Gaps 0;

Qy	601	AGAGTTGCTAATGGTATATTTCCCTGGTATCTGTCACTATAGGGGCACCCCTTTGCAAT	660
Db	19	ATAGCAATGCTGATGACATATTTCCCTGTTATCAGTTACTTATAGGGGCATTCGCTGCAAT	78
Qy	661	ATGTTGGCTATCCAGATCAAGTAGATGACTACAAAGATTCGCCCTTGGGCCACTAGAAGTC	720
Db	79	ATATCGGCCATCCAGATCGCAATGATGATACTACCAATTAAGCTACGCCCGATAGAATTC	138
Qy	721	CTCTGCATCAACCATCTCGCGSACATTCGGAGATCACTTCCCGCCTCCTGATTTCTGGTGCTC	780
Db	139	TTCTGTGTCGTGATGTGGCGTTTTTTGGAGGTTATCTCACGGTGAGTACTCTGGCATT	198
Qy	781	TTCTCAGCCACTTTGAATTTGAAGGCTGTGCCCTTCTAGTGTCTCAACTTCTGATCATC	840
Db	199	TTCAATGCATCTCTGAACCTGAAGAGCTACCCCGTTTGTTAATCATATATTTTGTATCA	258
Qy	841	CTCTTTGAGCCCTGGATTAAGTTCTCGGAGAAGTGGTCCAGATGCCCAATAACATTTGAG	900
Db	259	TTGTTGGCACCGTGGCTGGAGTTTTTGGAAAGTGGAGCTCATCTTCTCGGCAACAAGNA	318
Qy	901	AAAAACTTCAGCCGGGTGGGCACTCTGGTGGTCTGATTTTCAGTCCACATCCTCTATGCT	960
Db	319	AATAAATTCCAATATGGTGGGTACAGTACTGATGCTTTTTTCTTGATCACACTGTATAGCT	378
Qy	961	GGCATCAACTTCTCTGCTGTCAAGTTTTCAGTGTGAGGTTGGCAGACAGAGATCTCGTC	1020
Db	379	GCCATCAACTTCTCTGCTGGTCAAGTGAACCTGCAGTTGTCTGATGACAAATAATTT	438
Qy	1021	GACAAAGGGCAGAACTCGGGACATATGGGCT	1052
Db	439	GACGGGAGACAGAGGTGGGGCCATAGAATCTCT	470

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Job time : 245.597 secs